Attorney Docket No.: P-3558-US



## THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): WHITT, Michael A. et al. Examiner: Not yet known

Serial No.: 10/656,894 Group Art Unit: Not yet known

Filed: September 8, 2003

Title: RECOMBINANT MUTANTS OF RHABDOVIRUS AND METHODS OF USE

THEREOF

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO-1449:

1. 🛛	listing documents including patents, publications and other information for consideration
	by the Examiner, however, since the subject application was filed after June 30, 2003,
	copies of United States patents, and/or United States patent applications, and/or United
	States patent application publications are not included in this information disclosure
	statement; and/or
2. 🔲	listing documents including patents, publications and other information that have been
	previously cited or submitted to the Patent Office in prior application U.S. Serial No.
	, filed which is properly identified and relied on for an earlier effective filing
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4. Isiting other information for the Examiner's consideration which was cited in a communication from a foreign patent office in a counterpart foreign application, a copy of which is included with this information disclosure statement.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

This information Disclosure Statement is being fried.
I) Within three (3) months of filing the subject Application or entry of the
subject Application into the national stage or before mailing of the first Office Action on
the merits of the subject Application or a request for continued examination thereof,
whichever event occurs last pursuant to of 37 C.F.R §1.97 (b); or
II) After the period specified in (I) but before the mailing date of either a final
Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311
whichever occurs first and;
1.
the Form PTO-1449 was either (i) cited in a communication from a foreign patent

office in a counterpart foreign application not more than three (3) months prior to

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the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or 2. the undersigned hereby authorizes the Patent Office to charge the fee in the amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649. After the period in (I) and (II) but before the payment of the issue fee and, III) 1. The undersigned hereby states: that each item of information cited on the form PTO-1449 a) was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or b) that no items of information contained in Form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and 2. The undersigned hereby authorizes the Patent Office to charge the Petition fee in the Amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

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**Except** for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 05-0649.

Mark S. Cohen

Attorney for Applicant(s) Registration No. 42,425

Respectfully submitted,

Dated: November 8, 2004

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,	Supstitute	for form	1449A/PTO	Complete if Known			
E 5001				Application Number	10/656,894		
		TION	DISCLOSURE	Filing Date	September 8, 2003		
ST	A EME	NT B	DISCLOSURE Y APPLICANT	First Named Inventor	WHITT, Michael A.		
ENT & TRAD				Group Art Unit	Not yet known		
(use as many sheets as necessary)				Examiner Name	Not yet known		
Sheet	1	of	4	Attorney Docket Number	P-3558-US		

			U.	S. PATENT DOCUMENTS		
Examiner nitials*	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Α	5,547,932		Curiel et al	August 20, 1996	
	В	5,677,178		McConnick et al	October 14, 1997	
	С	5,622,856		Natsoulis et al	April 22, 1997	
	D	5,646,034		Mamounas et al	July 8, 1997	
	E	5,693,509		Cotton et al	December 2, 1997	
	F	5,589,377		Lebkowski et al	December 31, 1996	
	G	5,616,487		Palsson et al	April 1, 1997	
	Н	5,63,756		Kayman et al	July 1, 1997	
	ı	5,654,195		Sodroski et al	August 5, 1997	
	J	5,512,421		Burns et al	April 30, 1996	
	K	5,670,354		Burns et al	September 23, 1997	
	L	5,585,254		Maxwell et al	December 17, 1996	

				FORE	IGN PATENT DOCUME	NTS		
Examiner Initials*	Cite No. 1	Foreig		Document Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	۳
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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	Substitu	te for fo	orm 1449B/PTO	Complete if Known			
				Application Number	10/656,894		
INFO	)RMA	TION	N DISCLOSURE	Filing Date	September 8, 2003		
STA	TEME	ENT I	BY APPLICANT	First Named Inventor	WHITT, Michael A.		
				Group Art Unit	Not yet known		
(u	(use as many sheets as necessary)			Examiner Name	Not yet known		
Sheet	2	of	4	Attorney Docket Number	P-3558-US		

		NON PATENT LITERATURE DOCUMENTS	/						
Examiner Initials*	itials* No.1 publisher, city and/or country where published.								
	М	Rose et al, Rhabdoviridae: The viruses and their replication, in Fields Virology, Chapter 8, 4 <sup>th</sup> edition, pp. 1221-1244, 2001							
	N	Whitt M.A., "Genetic Manipulation of Rhabdoviruses: New Insights to Virus Replication, Transcription and Assembly" (1998) The Journal of Microbiology 36: 1-8,							
	0	Mar et al "A conserved CATTCCT motif is required for skeletal muscle-specific activity of the cardiac troponin T gene promoter" (1988) Proc. Natl. Acad. Sci. USA 85:6404							
	Р	Mader, S. et al "A steroid-inducible promoter for the controlled overexpression of cloned genes in eukaryotic cells" (1993) Proc. Natl. Acad. Sci. USA 90:5603-5607							
	Q	Spencer, D.M. et al (1993), Science 262:1019-102, American Association for the advancement of Science.							
	R	Manome, Y. et al. "Coinduction of c-jun Gene Expression and Internucleosomal DNA Fragmentation by Ionizing Radiation" (1993) Biochemistry 32:10607-10613, American Chemistry Society							
	S	Datta, R. et al. "Ionizing radiation activates transcription of the EGR1 gene via CarG elements" (1992) Proc. Natl. Acad. Sci. USA Volume 89:10140-10153, Biochemistry							
	Т	Fuerst T. R. el al "Eukaryotic transient-expression system based on recombinant vaccinia virus that synthesizes bacteriophage T7 RNA polymerase" (1986) Proc. Natl. Acad. Sci. USA 3. 8122-26, Biochemistry							
	U	Usdin et al "SP6 RNA Polymerase Containing Vaccinia Virus for Rapid Expression of Cloned Genese in Tissue Culture" (1993) BioTechniquest Volume 14:222-224							
	V	Rodriguez et al Regulated Expression of Nuclear Genes by T3 RNA Polymerase and <i>lac</i> Repressor, Using Recombinant Vaccinia Virus Vectors" (1990) J. Virol. 64: 4851:4857, American Society for Microbiology							
	W	Buskin Jean N. et al "Identification of a Myocyte Nuclear Factor That Binds to the Muscle-Specific Enhancer of the Mouse Muscle Creatine Kinase Gene" Molecular and Cellular Biology, 1989, P. 2627-2640							
	Х	Baltimore David et al "Ribonecleic Acid Synthesis of Vesicular Stomatitits Virus, II. An RNA Polymerase in the Virion" Proceedings of the National Academy of Sciences, Vol. 66, No. 2, pp. 572-576, June 1970							

Examiner	Date	
Signature	Considered	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Sheet	2	of	4	Attorney Docket Number	P-3558-US		

		NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>						
	Y	Chu, Te-Hua Tearina et al., "Toward Highly Efficient Cell-Type Specific Gene Transfer with Retroviral Vectors Displaying Single-Chain Antibodies", Journal of Virolgoy, Vol. 71, No. 1, pp. 720-725, Jan 1997.							
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		Fuerst, Thomas R. et al., Use of a Hybrid Vaccinia Virus-T7 RNA Polymerase System for Expression of Target Genes, Molecular and Cellular Biology, Vol. 7, No.7, pp. 2538-2544, July 1987.							
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	AI	Nolan, Garry P., Harnessing Viral Devices as Pharmaceuticals: Fighting HTV-I's Fire with Fire, Cell, Vol. 90, pp. 821-824, September 5, 1997							

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				Application Number	10/656,894
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	September 8, 2003
				First Named Inventor	WHITT, Michael A.
				Group Art Unit	Not yet known
(use as many sheets as necessary)			eets as necessary)	Examiner Name	Not yet known
Sheet	4	of	4	Attorney Docket Number	P-3558-US

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	AJ	Pattnaik, Asit K. et al., Cells that express all five proteins of vesicular stomatitis virus from cloned cDNAs support replication, assembly, and budding of defective interfering particles. Proc. Natl. Acad. Sci. USA. Vol. 88, pp. 1379-1383, February 1991						
	AK	Pattnaik, Asit K. et al., Infectious Defective Interfering Particles of VSV from Transcripts of a cDNA Clone, Cell, Vol. 69, pp. 1011-1020, June 12, 1992						
i	AL	Pattnaik, Asit K. et al., Replication and Amplification of Defective Interfering Particle RNAs of Vesicular Stomatitis Virus in Cells Expressing Viral Proteins from Vectors Containing Cloned cDNAs. Journal of Virology, Vol. 64, No. 6, pp. 2948-2957, June 1990.						
	AM	Schnell, Matthias J. et al., Foreign glycoproteins expressed from recombinant vesicular stomatitis viruses are incorporated efficiently into virus particles. Proc. Natl. Acad. Sci USA. Vol. 93, pp. 11359-11365, October 1996						
	AN	Schnell, Matthias J. et al., Infectious rabies viruses from cloned cDNA. The EMBO Journal. Vol. 13, No. 18, pp. 4195-4203, 1994						
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	AS	Whelan, Sean P.J. et al., Efficient recovery of infectious vesicular stomatitis virus entirely from cDNA clones, Proc. Natl. Acad. Sci. USA, Vol. 92, pp. 8388-8392, August 1995						
	AT	Young, John A. T. et al., Efficient Incorporation of Human CD4 Protein into Avian Leukosis Virus Particles, Science. Vol. 250, pp. 1421-1423, December 7, 1990						

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